

Documentation Sheet



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Title *Pattern Synthesis of Uniform and Non-uniform Array using Weighted Least Square Algorithm*

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Abstract

This document presents the pattern synthesis of uniform and non-uniform array using weighted least square algorithm. Results are presented for different main lobe width, number of antenna elements, inter-element spacing, and beam scanning. It is shown that the algorithm is fast, efficient, and flexible. It has a great control over the placement of a wide and deep notch (null) in the sidelobe region of the pattern.